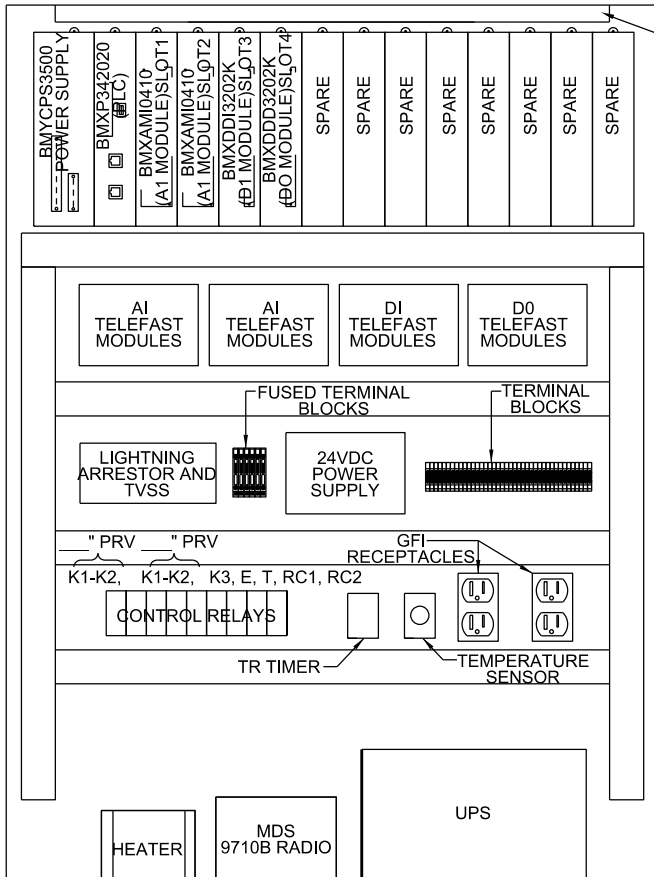


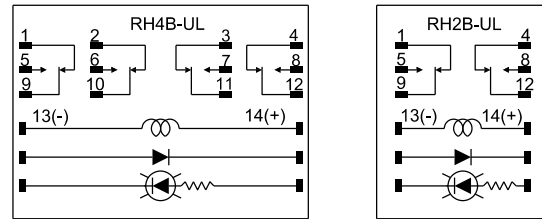
VALVE LIMIT SWITCHES			
ROTOR	100% OPEN	TRANSITION	100% CLOSED
LS/O			
LS/C			

— INDICATES CLOSED CONTACT

NOTE:
ELECTRICAL ENGINEER TO PROVIDE COMPLETE I/O LIST.

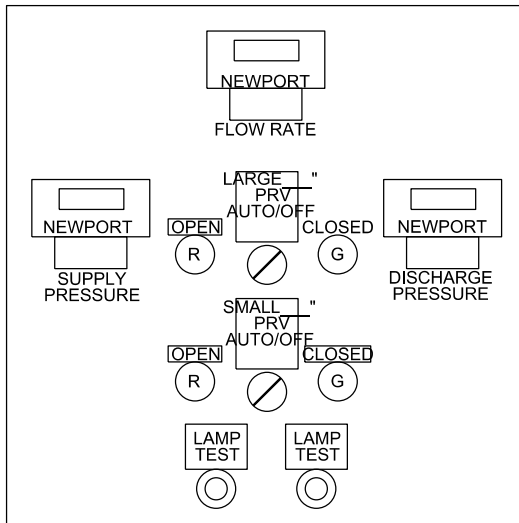


ITEM	DESCRIPTION	PART #	MFG
K1	2PDT RELAY WITH LED PRV CLOSED INDICATION	RH2B-UL-AC120	IDEC
K2	2PDT RELAY WITH LED PRV OPEN INDICATION	RH2B-UL-AC120	IDEC
K3	2 POSITION VALVE OFF/AUTO CONTROL	RH2B-UL-AC120	IDEC
HS-1	2PDT RELAY WITH LED POWER LOSS SCADA INPUT	800T-H2B	ALLEN-BRADLEY
HS-2	NORMALLY OPEN PUSHBUTTON LAMP ENABLE	800T-A2D1	ALLEN-BRADLEY
HS-3	NORMALLY OPEN PUSHBUTTON LAMP TEST	800T-A2D1	ALLEN-BRADLEY
T	4PDT TEST RELAY COIL SHOWN	RH4B-UL-AC120	IDEC
E	4PDT ENABLE RELAY COIL SHOWN	RH4B-UL-AC120	IDEC
TR	SINGLE SHOT TIME DELAY FOR ENABLE CIRCUIT	RTE-P2-AF20	IDEC
RC1,2	2PDT RELAY WITH LED PRV CLOSED INDICATION	RH2B-UL-AC24	IDEC



A PRV SCADA PANEL LAYOUT
SCALE: N.T.S.

C DEVICE SCHEDULE
SCALE: N.T.S.



GENERAL NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING INSTRUMENTATION CABLE AND CONDUIT FROM THE INSTRUMENTS TO SCADA PANEL.

B SCADA: SWING-OUT PANEL LAYOUT
SCALE: N.T.S.

TYPE: 100A COPPER BUS 80A MAIN BREAKER 240V/120V 1-PHASE, 3-WIRE		POWER PANEL "A"						SERVICE ENTRANCE RATED WITH ISOLATED NEUTRAL BUS WITH ISOLATED GROUND BUS	
SCADA HEATER	800 WATTS	20	1	1	2	1	20	250 WATTS	SUMP PUMP RECEPT
TRANSMITTER ENCLOSURE RECEPT	1920 WATTS	20	1	3	4	1	20	1500 WATTS	SCADA AC
POWER SIDE RECEPT	1920 WATTS	20	1	5	6	1	20	1920 WATTS	CONTROL SIDE RECEPT
SCADA PLC	250 WATTS	20	1	7	8	1	20	1920 WATTS	VAULT RECEPT
SPARE	-	20	1	9	10	1	20	600 WATTS	VAULT LIGHTS
SPARE	-	20	1	11	12	1	20	-	SPARE
SPARE	-	20	1	13	14	1	20	-	SPARE
SPARE	-	20	1	15	16	1	20	-	SPARE
SPARE	-	20	1	17	18	1	20	-	SPARE
	4890 WATTS	TOTAL 11,080 WATTS						6190 WATTS	

NOTE:
EACH CIRCUIT SHALL HAVE SEPARATE HOT, NEUTRAL, GROUND WIRES, DO NOT SHARE NEUTRAL OR GROUND WIRES FROM OTHER CIRCUITS.

D ELECTRICAL PANEL SCHEDULE
SCALE: N.T.S.

DD-905-08

SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS



APPROVED:
SEPTEMBER 2012

SHEET
1 OF 1

ELECTRICAL AND SCADA PANELS

REVISED: